**PCT** 

Rec'd PS 7/PPO 08 DEC 2004

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	ION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/		
70065 PCT International application No.	International filing date (day/mor	nth/year)	Priority date (day/month/year)	
	04 June 2003 (04.06.2003)		12 June 2002 (12.06.2002)	
PCT/US03/17486 International Patent Classification (IPC)				
		.: 504/147, 334,	, 335, 336, 337, 338, 339, 340, 341, 342	
Applicant				
SYNGENTA PARTICIPATIONS AG				
This international preliminary examination report has been prepared by this International Preliminary     Examining Authority and is transmitted to the applicant according to Article 36.				
2. This REPORT consists of	2. This REPORT consists of a total of sheets, including this cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of	a total of sheets.			
3. This report contains indic	cations relating to the following	items:	•	
I Basis of the re	I Basis of the report			
II Priority				
III Non-establishn	III Non-establishment of report with regard to novelty, inventive step and industrial applicability			
IV Lack of unity	IV Lack of unity of invention			
V Reasoned state applicability; of	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI Certain docum				
VII Certain defects				
,				
Date of submission of the demand	Dat	e of completio	n of this report	
09 January 2004 (09.01.2004)		09 June 2004 (09.06.2004)		
Name and mailing address of the IPEA/US		Authorized officer		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		S. Mark Clardy		
P.O. Box 1450 Alexandria, Virginia 22313-145		Telephone No. 703-308-1235		
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(July 1998)				

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application	·
PCT/US03/17486	

I.	Basi	s of the report
1.	With	regard to the elements of the international application:*
	$\boxtimes$	the international application as originally filed.
	$\boxtimes$	the description:
		pages 1-22 as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
	$\bowtie$	the claims:
		pages 23-25, as originally filed
		pages NONE, as amended (together with any statement) under Article 19
		pages NONE , filed with the demand
	_	pages NONE , filed with the letter of
		the drawings:
		pages NONE, as originally filed
		pages NONE, filed with the demand
		pages NONE, filed with the letter of
		the sequence listing part of the description:
		pages NONE , as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
2.		h regard to the language, all the elements marked above were available or furnished to this Authority in the
	Thes	uage in which the international application was filed, unless otherwise indicated under this item.  se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	닏	the language of publication of the international application (under Rule 48.3(b)).
	Ш	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With inter	n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
	Щ	furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go
*	Dania	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
thi	s repo	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in It as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). Peplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.



International application. PCT/US03/17486

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	STATEMENT			
	Novelty (N)	Claims	1-25	YES
		Claims	NONE	NO

Claims NONE

Claims NONE

Claims 1-25

Industrial Applicability (IA)

Claims 1-25 YES

YES

NO

NO

## 2. CITATIONS AND EXPLANATIONS

Inventive Step (IS)

Claims 1-25 lack an inventive step under PCT Article 33(3) as being obvious over the combined teachings of Penner et al (US 6,235,682) and Feucht et al (US 6.365.550).

Penner et al teach compositions comprising a herbicide such as an acetanilide or acetamide herbicide, among others (acetochlor, alachlor, flufenacet, metolachlor; columns 6 and 11, and Table 1) and an oil based adjuvant which enhances the herbicidal activity, such as a free fatty acid (column 5, lines 53-64). The compositions contain an organosilicon containing adjuvant which serves to reduce the foliar retention of the composition so that it does not adhere to desirable crop plants, but controls weeds that beneath them.

Feucht et al teach herbicidal compositions comprising flufenacet as the herbicidal agent in combination with glyphosate or glufosinate (abstract) in combination with conventional adjuvants including organic solvents and oil based adjuvants such as xylene, toluene, or alkylnaphthalenes, aliphatic hydrocarbons such as cyclohexana or paraffins, mineral oil fractions, mineral and vegetable oils, etc. (column 4, lines 21-33).

Thus it would have been prima facie obvious to one of ordinary skill in the art to use the customary oil based adjuvants of Feucht et al with the active agents and fatty acid components of Penner et al in order to obtain the beneficial characteristics of the Penner compositions.

Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus possess industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box V) (July 1998)





## NOTE OF INFORMAL COMMUNICATION WITH THE APPLICANT

(PCT Rule 66.6)

International application	No.	Applicant's or ager		Date of informal con (day/month/year)	
PCT/US03/17486		70065 PCT	١	08 June 2004 (08.00	5.2004)
Applicant SYNGENTA PARTICIPATIONS AG					
Communication  by telephone  personal	Participants Applicant Agent: Examiner	: Tom Hamilton (s): S. Mark Clard	Identity checked	authorization checked	personally known
Summary of communica					
Attorney authorized con	mpletion of IPER	(PCT 409) in place	of the 408.		
					,
					1
·					
. ,					-
An extension of time limit is granted (Form PCT/IPEA/427.					
A copy of this note is being sent to the applicant with Form PCT/IPEA/429.  PCT/IPEA/424.					
Commissioner f	Attn: IPEA/US for Patents ginia 22313-1450 5-3230	US	Authorized office S. Mark Chris Telephone No.	y / ·	School